

WHAT IS CLAIMED IS:

1. An information processing apparatus for transferring data of a job formed on the basis of application data to a printer via interface means,  
5 comprising:

discriminating means for discriminating a communication environment regarding said data transfer; and

10 cancellation processing means for, when cancellation is instructed during said data transfer, cancelling said data transfer via said interface means by one of a plurality of cancelling methods on the basis of said communication environment discriminated by said discriminating means.

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2. An apparatus according to claim 1, wherein said cancellation processing means shifts said printer to a state where the data transfer for a subsequent print job can be normally restarted.

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3. An apparatus according to claim 1, further comprising cancelling method selecting means for selecting the cancelling method that is optimum to said communication environment on the basis of  
25 information which is obtained from an apparatus information database, and

wherein said cancellation processing means has

cancelling method switching means for switching the cancelling methods on the basis of a result of the selection by said cancelling method selecting means.

5           4. An apparatus according to claim 1, wherein said discriminating means comprises:

discriminating means for discriminating a type of said interface means by using said data transfer;

10           print environment discriminating means for discriminating a print environment; and

cancelling method selecting means for selecting the cancelling method based on the discriminated type of said interface means and the discriminated print environment, and

15           wherein said cancellation processing means executes a cancelling process on the basis of a result of the selection by said cancelling method selecting means.

20           5. An apparatus according to claim 1, wherein said discriminating means comprises:

interface discriminating means for discriminating a type of said interface means which is used for said data transfer or a communicating  
25           state of said interface means;

print environment discriminating means for discriminating a current set print environment; and

an apparatus information database for managing  
printer information for the printer on a data  
transfer destination side, and

wherein said cancellation processing means  
5 selects the cancelling method on the basis of at  
least one of the discriminated type of said interface  
means, the discriminated communicating state of said  
interface means, and the discriminated print  
environment.

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6. An apparatus according to claim 1, further  
comprising user interface means for displaying the  
plurality of cancelling methods which can be switched  
and selecting and instructing one of the cancelling  
15 methods, and

wherein said cancellation processing means  
cancels said data transfer by the selected and  
instructed cancelling method.

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7. An apparatus according to claim 1, wherein  
said cancelling methods include a method of  
transmitting a reset signal of the interface means or  
a method of transferring complementary data.

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8. An apparatus according to claim 3, wherein  
said apparatus information database stores and  
manages information showing whether said printer has

a cancelling function based on a reset signal of the interface means or not, information showing whether an initializing operation is executed upon cancellation or not when said printer has the  
5 cancelling function, or information showing a time which is needed in the case of executing the initializing operation.

9. An apparatus according to claim 6, wherein  
10 said user interface means can display a list of the current valid cancelling methods to the user and receive a selecting instruction of the user.

10. An information processing apparatus which  
15 can communicate with a printer, comprising:  
forming means for forming a job including print data based on application data;  
transmitting means for transmitting data of the job formed by said forming means to said printer;  
20 obtaining means for obtaining limitation information of cancellation of said job; and  
cancellation processing means for executing a cancelling process of the job transmitted by said transmitting means by a cancelling method based on  
25 the limitation information obtained by said obtaining means.

11. An apparatus according to claim 10, wherein  
a type of interface is included in said limitation  
information and said cancellation processing means  
executes the cancelling process by the cancelling  
5 method based on the type of said interface obtained  
by said obtaining means.

12. An apparatus according to claim 11, wherein  
a print environment is included in said limitation  
10 information and said cancellation processing means  
executes the cancelling process by the cancelling  
method based on the print environment obtained by  
said obtaining means and the type of said interface.

13. An apparatus according to claim 11, wherein  
15 printer information is included in said limitation  
information and said cancellation processing means  
executes the cancelling process by the cancelling  
method based on said printer information and the type  
20 of said interface.

14. An apparatus according to claim 10, wherein  
printer information is included in said limitation  
information and said cancellation processing means  
25 executes the cancelling process by the cancelling  
method based on said printer information obtained by  
said obtaining means.

15. An apparatus according to claim 10, wherein  
said cancelling method corresponds to a resetting  
method and a reset by a reset signal and a reset by a  
transfer of complementary data are included in said  
5 resetting method.

16. A job processing method in an information  
processing apparatus having transmitting means for  
transferring data of a job formed on the basis of  
10 application data to a printer via interface means,  
comprising:

a discriminating step of discriminating a  
communication environment regarding said data  
transfer; and

15 a cancellation processing step of, when  
cancellation is instructed during said data transfer,  
cancelling said data transfer via said interface  
means by one of a plurality of cancelling methods on  
the basis of said communication environment  
20 discriminated in said discriminating step.

17. A job processing method in an information  
processing apparatus which can communicate with a  
printer, comprising:

25 a forming step of forming a job including print  
data based on application data;

a transmitting step of transmitting data of the

job formed in said forming step to said printer;

an obtaining step of obtaining limitation  
information of cancellation of said job; and

a cancellation processing step of executing a  
5 cancelling process of the job transmitted in said  
transmitting step by a cancelling method based on the  
limitation information obtained in said obtaining  
step.

10 18. A program which is executed in an  
information processing apparatus having transmitting  
means for transferring data of a job formed on the  
basis of application data to a printer via interface  
means, comprising:

15 a discriminating step of discriminating a  
communication environment regarding said data  
transfer; and

a cancellation processing step of, when  
cancellation is instructed during said data transfer,  
20 cancelling said data transfer via said interface  
means by one of a plurality of cancelling methods on  
the basis of said communication environment  
discriminated in said discriminating step.

25 19. A program which is executed in an  
information processing apparatus which can  
communicate with a printer, comprising:

a forming step of forming a job including print data based on application data;

a transmitting step of transmitting data of the job formed in said forming step to said printer;

5 an obtaining step of obtaining limitation information of cancellation of said job; and

a cancellation processing step of executing a cancelling process of the job transmitted in said transmitting step by a cancelling method based on the  
10 limitation information obtained in said obtaining step.

20. A memory medium in which a program for executing a job processing method in an information  
15 processing apparatus having transmitting means for transferring data of a job formed on the basis of application data to a printer via interface means has been stored in a computer-readable form, wherein said program comprises:

20 a discriminating step of discriminating a communication environment regarding said data transfer; and

a cancellation processing step of, when cancellation is instructed during said data transfer,  
25 cancelling said data transfer via said interface means by one of a plurality of cancelling methods on the basis of said communication environment



discriminated in said discriminating step.

21. A memory medium in which a program for  
executing a job processing method in an information  
5 processing apparatus which can communicate with a  
printer has been stored in a computer-readable form,  
wherein said program comprises:

a forming step of forming a job including print  
data based on application data;

10 a transmitting step of transmitting data of the  
job formed in said forming step to said printer;

an obtaining step of obtaining limitation  
information of cancellation of said job; and

15 a cancellation processing step of executing a  
cancelling process of the job transmitted in said  
transmitting step by a cancelling method based on the  
limitation information obtained in said obtaining  
step.